**RECEIVED** 

## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

	: en Flow liverabil				Test Date		tions on Re	verse Side	API	No. 15			
Company Noble Energy Inc					<del></del>	Lease Keller F	arms	15-	023-21169-0		Well Nu	mber	
County Location				Section		TWP -	TWP - R		RNG (E/W)		Acres Attributed		
Cheyenne NW-SE-NE-SE Field				13 Reservoir	13 2S Reservoir			39W Gas Gathering Connection			· · · · ·		
Cherry Creek					Niobrara -			Southe					
· · · · · · · · · · · · · · · · · · ·					Plug Baci 1375'	Plug Back Total Depth 1375'			Packer S	Set at			
Casing Size 7", 4-1/2"			Weight 17#, 11	Internal Diameter 9-7/8", 6-1/4"		Set at 143', 1419'		Perforations 1196'		то 1240'			
Tubing Size 2-3/8"	Tubing Size Weight 2-3/8" 4.7#				Internal D	Diameter		Set at 1263'		rations	То	То	
Type Completion (Describe)					Type Fluid	Type Fluid Production Saltwater			Pump Unit or Traveling Plunger? 6 / No				
Single (gas)  Producing Thru (Annulus / Tubing)						% Carbon Dioxide				Rod Pump  % Nitrogen Gas Gravity - G.			
Tubing (Almaids / Idoling)										,	•	,	
Vertical D	epth(H)	)				Pres	ssure Taps				(Meter I	Run) (P	rover) Size
Pressure	Builder	y Shi	ut in11/7	21	13 at 10	0:30	(AM) (PM)	Taken		20	at		(AM) (PM)
Pressure Buildup:       Shut in													
						OBCEDVI	ED CUREAC	C DATA				. 24	
Static /	Circle one: Pressure			Well Head	BERVED SURFACE DATA  Casing			Tubing	Duration of Shut-	<u> </u>	Houis		
Dynamic Property	Dynamic Size		I Prover Pressure I In I		Temperature t		(P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In		_	psig (Fill) linches H <sub>2</sub> O				psig 143	psia	psig	psia			
Flow													
1						FLOW ST	REAM ATTE	IBUTES	1				
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Me Prover	Circle one:  Meter or  Press Extension  Prover Pressure  psia  P <sub>m</sub> x h		Gravity Factor F <sub>g</sub>		Flowing Temperature Factor F <sub>rt</sub>	e Deviation Factor		Metered Flow R (Mcfd)		(Cubic Feet/	
•••													
<b>(5.</b> )2			/D \2		•	• •	VERABILITY	•				2 = 0.2 2 =	207
(P <sub>c</sub> ) <sup>2</sup> =:		<u>- · </u>	(P <sub>w</sub> ) <sup>2</sup> = :		P <sub>d</sub> =			% (P <sub>c</sub> - 14.4) +  Backpressure Curve		г э	(r <sub>d</sub> )		
(P <sub>c</sub> ) <sup>2</sup> - (F or (P <sub>c</sub> ) <sup>2</sup> - (F	$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		$(P_{w})^{2} - (P_{w})^{2}$ 1. $P_{c}^{2} - P_{a}^{2}$ 2. $P_{c}^{2} - P_{d}^{2}$ divided by: $P_{c}^{2} - P_{w}^{2}$		LOG of formula 1. or 2. and divide by:		Slope = "n" Assigned Standard Slope		n x 106		Antilog	Open Flow Deliverability Equals R x Antilog (Mc/d)	
	$\dashv$												
Open Flow Mcfd @ 14.65 psia						Deliverability			Mcfd @ 14.65 psia				
		-	•				•				ort and that he ha		
the facts s	tated th	nerein, a	and that said	l report is true	and correc	t. Execute	d this the		day of				20 13
			Witness (if a	ny)						For	Company	CC	WICHI
			For Commiss	sion		· · · · · ·				Che	cked by	DEC	3 1 2013

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.  I hereby request a one-year exemption from open flow testing for the Keller Farms 43-13 gas well on the grounds that said well:
(Check one)  is a coalbed methane producer  is cycled on plunger lift due to water
is a source of natural gas for injection into an oil reservoir undergoing ER is on vacuum at the present time; KCC approval Docket No is not capable of producing at a daily rate in excess of 250 mcf/D
I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.  Date: 12/27/13
Signature: <u>Ckingle for formal</u> Title: <u>Completions Supervisor</u>

Instructions:

If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under OBSERVED SURFACE DATA. Shut-in pressure shall thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption IS denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well-concept. Signed and dated on the front side as though it was a verified report of annual test results.

DEC 3 1 2013